| POSITION                  | INITIALS | טו.  | DATE     |
|---------------------------|----------|------|----------|
| FEE DETERMINATION         | 5.2      |      | 11-28-01 |
| O.I.P.E. CLASSIFIER       | 121      | 34   | 124      |
| FORMALITY REVIEW          | L &      | 1024 | 12/16/01 |
| RESPONSE FORMALITY REVIEW |          |      |          |
|                           |          |      |          |

## **INDEX OF CLAIMS**

| ~ | Rejected                   | N | Non-elected  |
|---|----------------------------|---|--------------|
|   | Allowed                    | 1 | Interference |
|   | (Through numeral) Canceled | Α | Appeal       |
|   | Restricted                 | 0 | Objected     |

| Claim  |                      |          |            |           |          |              | ected        | . Ob |            |                   | :               |              | 0            |          |           | cted     | Resti | F          |  |                 |               | ÷                |              |        |                  |            |       |          |
|--|----------------------|----------|------------|-----------|----------|--------------|--------------|------|------------|-------------------|-----------------|--------------|--------------|----------|-----------|----------|-------|------------|--|-----------------|---------------|------------------|--------------|--------|------------------|------------|-------|----------|
|  |                      | _        | Claim Date |           |          |              | Date         |      |            |                   |                 |              | Claim        |          |           |          |       |            | Date   | _               |               |                  | . T          | laim   | C                |            |       |          |
| S2   | $\prod$              | Т        | П          | Т         |          |              | T            |      |            | $\top$            |                 |              |              | Т        |           | T        |       |            | $\top$   | П               |               |                  | П            | Т      | -                | . 4        | T_    | ۲        |
| S2   |                      |          |            |           |          |              | -            | iĝ   | 喜          |                   |                 | il           |              | Ì        |           |          | gine  | <u></u>    |  |                 |               |                  |              |        | $\mathbb{A}$     |            | ,   e | 1        |
| S2   | ++                   | +        | 4          | 4         | _        | Ш            | _ _          | Ō    | i <u>i</u> | $\perp \perp$     | _               |              |              |          |           |          | ŏ     | 遣          |  |                 |               |                  |              |        | Ý.               | þ          | Ī     | ű        |
| 3  | ╫╌                   | +        | +          | -         | $\dashv$ |              | -            |      | <u> </u>   | Щ.                | _               |              | <u> </u>     |          |           |          |       | ΙL         |  |                 |               |                  |              | L      | Ž.               | $\bigcirc$ | 0     |          |
| 104   105   106   106   106   107   107   107   107   107   107   107   107   107   107   108   109    | +-+                  | +        | +          | +         |          | Н            | <del>-</del> |      | <u> </u>   | 4-                |                 | Ш            | 1_           | _        |           |          |       | ıL         |  |                 |               |                  |              |        | 4                | 2]√        | 2     |          |
| 5  | -  -                 | +        | +          | +         |          | Н            | -            |      | <u> </u>   | 44                | _               |              | <u> </u>     |          | $\perp$   | _        |       | l L        |  |                 |               |                  | Ш            | 1      | _                |            | _     | L        |
| 6 V   56   106   107   108   109   100   1 | ++                   | +        | +          | $\dashv$  | $\dashv$ |              |              |      | <u> </u>   | $\dashv\dashv$    | -               |              | ┝            | - -      | -         |          |       | i          |  |                 | $\perp$       | Щ                |              |        | //e              | 4          |       | L        |
| 107  | ++                   | ╁        | +          | $\dashv$  | $\dashv$ | $\vdash$     |              | -    | -          | +                 | -               |              | ┡            |          | $\vdash$  |          |       |            | +  | $\sqcup$        |               | Ш                | Щ            | -      | <b>%</b>         | 51.        |       | _        |
| 8  | +-+                  | +        | +          | +         | -        | Н            | +-           |      | -          |                   | +               | $\vdash$     | H            | +        | $\vdash$  |          |       | !          | _  | H               |               | $\square$        |              | +      |                  |            |       | $\perp$  |
| 9   10   10   110   110   110   110   111  | ++                   | +        | $\dashv$   | 十         | -        | Н            | +            |      |            | +-                | -+              |              | $\vdash$     | +-       | $\vdash$  |          |       | l          |  | $\vdash$        | +             | $\vdash$         | H            | +      | 4                |            |       | $\vdash$ |
| 10   | +                    | +        | +          | 十         | _        |              | $\dashv$     |      | -          | $\dashv \dashv$   | $\dashv$        | $\vdash$     | $\vdash$     | +        |           | +        | _     | l          | -  |                 | +             |                  | $\vdash$     |        | ╫                |            |       | $\vdash$ |
| 111  | ++                   | $\top$   | _          | $\dashv$  | _        | Н            |              |      |            | +                 | +               |              | ╀            | +        | -         | +        | -     | <u> </u> - |  | $\vdash$        |               | $\vdash$         | ┼~           | +      | +-               |            |       | ⊢        |
| 12   V   | $\top$               | $\top$   | 十          | ヿ         |          | П            | - -          |      |            | -                 | -               |              | $\vdash$     | +        | $\vdash$  | +-       |       |            |  | H               |               | $\vdash$         | <del> </del> | +      | +                | 11         | 1     | $\vdash$ |
| 13   | $\top$               | $\top$   | $\dashv$   | $\dashv$  | _        | П            | 1            |      |            | +                 | -+              |              | $\vdash$     | +        | $\vdash$  | +        |       |            | +  | ┝╌┤             | +             | <del>  -  </del> | +            | +      | <del>/-</del>    | *          | 4:    | -        |
| 14   V   114   115   V     16   X   66   115   116   115     17   V   66   67   117   117     18   0   68   118   119   119     20   70   120   120   121   120   121   122   122   122   122   123   123   123   124   124   124   125   126   126   126   126   126   126   127   127   127   127   127   128   129   129   130   130   131   131   132   133   133   134   134   134   134   134   134   134   134   134   134   134   135   136   136   136   136   136   136   136   136   137   13   | $\Box$               |          | T          | 寸         | 一        | П            |              |      |            | $\forall \exists$ | $\dashv$        | $\vdash$     | $^{\dagger}$ | $\top$   | $\vdash$  | +        |       | -          | +  | $\vdash$        | +             | ╁┤               | +            | +      |                  |            |       | $\vdash$ |
| 15 V   65   115     16 X   66   116     17 V   68   117     18 0   68   118     19 1   68   118     20 1   70   120     21 0   71   121     22 1   72   122     23 23   73   123     24 24   74   124     25 26   76   125     26 1   76   126     27 7   77   127     28 7   79   129     30 80   80   130     31 7   83   134     34 84   84   134     35 36   86   86     37 87   87   136  |                      |          | $\Box$     | ╗         |          | П            | 7            | 114  |            | $\neg \neg \neg$  | $\dashv$        | ,,           | 1            | +        | $\sqcap$  | $\dashv$ | -     | -          | +  | $\vdash$        | _             | $\vdash \vdash$  | +            | +-     |                  |            |       | $\vdash$ |
| 16   X   66   116   117   116   117   118   117   118   117   118   118   119   119   119   119   119   119   120   119   120   121   121   122   122   122   122   123   123   123   123   123   123   124   124   124   124   124   125   125   125   126   126   127   127   127   127   127   127   128   128   128   128   129   130   131   131   131   131   131   132   132   133   133   134   134   134   134   134   134   134   135   136   136   136   136   136   136   137 </td <td></td> <td><math>\perp</math></td> <td></td> <td><math>\Box</math></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td><math>\Box</math></td> <td><math>\neg</math></td> <td>7</td> <td>Τ</td> <td></td> <td><math>\sqcap</math></td> <td><math>\top</math></td> <td></td> <td>   -</td> <td>+</td> <td><math>\vdash \vdash</math></td> <td>+</td> <td><math>\vdash</math></td> <td>+</td> <td>+-</td> <td>Ň-</td> <td>5</td> <td></td> <td><math>\vdash</math></td>  |                      | $\perp$  |            | $\Box$    |          |              |              |      |            | $\Box$            | $\neg$          | 7            | Τ            |          | $\sqcap$  | $\top$   |       | -          | +  | $\vdash \vdash$ | +             | $\vdash$         | +            | +-     | Ň-               | 5          |       | $\vdash$ |
| 17 V   667   117     18 0   68   118     19 1   69   119     20 1   70   120     21 1   71   121     22 2   72   122     23 23   73   123     24 1   74   124     25 26 1   76   126     27 7   77   127     28 7   78   128     29 79   79   129     30 80   130   131     32 9   80   132     33 81   131   132     33 83   83   133     34 84   134   135     35 86   86   136     37 87   86   136   |                      |          |            | $\Box$    |          |              |              |      |            |                   |                 |              | T            | 1        | П         | $\top$   |       |            |  | $\Box$          | -             | $\vdash$         | +-           | +      | <del>/</del>     | 6 1        |       | -        |
| Te   0   | $\perp \perp$        |          | $\Box$     |           |          |              |              | 117  |            |                   |                 |              | 1            |          |           |          |       | l          | $\top$   | П               | 一一            | $\Box$           | T            | +      | <del>7</del>  -  | 2 1        | 1     | H        |
| 19 1   69   119     20 1   70   120     21 1   71   121     22 2   72   122     23 23   73   123     24 24   74   124     25 26   75   125     26 1   76   126     27 7   77   127     28 7   78   128     29 79   129   129     30 80   130   131     31 7   81   131     32 82   132   132     33 83   133   134     34 84   84   134     35 85   86   136     37 87   87   137  | $\bot \bot$          | 1        | $\Box$     |           |          |              |              |      |            |                   |                 |              | 1            |          |           | 1.       | 68    | i  -       |  | $\Box$          |               | $\vdash$         | T            | +-     | <u>i</u>         | 8 6        | 1     | $\vdash$ |
| 20   70   120     21   71   121     22   72   122     23   73   123     24   74   124     25   75   125     26   76   126     27   77   127     28   78   128     29   79   129     30   80   130     31   81   131     32   82   132     33   83   133     34   84   134     35   85   135     36   86   136     37   87   137  | $\perp \perp$        | $\perp$  |            |           |          |              |              | 119  |            |                   |                 |              | Г            |          |           |          | 69    |            |  |                 |               |                  | ╁            | +-     | i l              |            |       | ┢        |
| 21   71   121     22   72   122     23   73   123     24   74   124     25   75   125     26   76   126     27   77   127     28   78   128     29   79   129     30   80   130     31   81   131     32   82   132     33   83   133     34   84   134     35   85   135     36   86   136     37   87   137  |                      |          |            |           |          |              |              | 120  |            |                   |                 |              |              | T        |           |          | 70    | 1          |  |                 |               |                  | T            | $\top$ | $\dagger \vdash$ |            |       | F        |
| 22   72   122     23   73   123     24   74   124     25   75   125     26   76   126     27   77   127     28   78   128     29   79   129     30   80   130     31   81   131     32   82   132     33   83   133     34   84   134     35   85   135     36   86   136     37   87   137  |                      |          |            | $\Box$    |          |              |              | 121  |            |                   |                 |              |              |          | $\Box$    |          | 71    | 1          | $\vdash$   |                 | _             | 1                | +            |        | $^{*}$           |            |       | ⊢        |
| 23   73   123     24   74   124     25   75   125     26   76   126     27   77   127     28   78   128     29   79   129     30   80   130     31   81   131     32   82   132     33   83   133     34   84   134     35   85   135     36   86   136     37   87   137  | $\perp \! \! \perp$  | $\perp$  |            |           |          |              |              |      |            |                   |                 |              | T            |          |           |          |       | 1          | $\sqcap$   | П               | $\dashv$      | $\vdash$         | T            | +      | ₩                |            |       | ┢        |
| 24 74 124   25 75 125   26 126 126   27 77 127   28 78 128   29 79 129   30 80 130   31 81 131   32 82 132   33 83 133   34 84 134   35 85 135   36 86 136   37 87 137   | $\bot$               | $\perp$  |            |           |          | _            |              |      |            |                   |                 |              |              |          | П         |          |       | 1          |  | m               |               |                  | T            |        | - Ť -            |            |       | 7        |
| 26 1   27 77   28 78   29 79   30 80   31 81   32 82   33 83   33 84   35 85   36 86   37 87   |                      | 4        | _          | _         |          |              |              |      |            |                   |                 |              |              |          |           |          |       | 1 [        | П  |                 |               |                  |              | 1      |                  | 4          | 2     | F        |
| 27 77 127   28 / 78 128   29 79 129   30 80 130   31 / 81 131   32 / 82 132   33 83 133   34 84 134   35 85 135   36 86 136   37 87 137  | $\dashv$             | _        | $\dashv$   | _         |          | L.           |              |      | l L        |                   |                 |              |              |          |           |          |       | 1 [        |  | П               | $\neg   \neg$ |                  | 1            | $\top$ | 1                | 5          | 2     | r        |
| 28 / . 78   29 79   30 80   31 / . 81   32 / . 82   33 83   34   . 84   35   . 85   36   . 86   37   . 87   .  | $\dashv$             | -        | _          | _         |          | $\perp$      | $\perp$      |      |            |                   |                 | 乚            |              |          |           |          | 76    | ] [        |  |                 |               |                  |              | Τ      | 1                | 6          | 2     |          |
| 129  | $\dashv$             | -        | $\dashv$   |           | $\dashv$ | <del> </del> |              |      | <u> </u>   |                   |                 | L            | 1_           | $\bot$   | $\sqcup$  |          |       | ] [_       |  |                 |               |                  | T.,          |        | 1                |            |       |          |
| 30   80   130   131   32   33   33   84   134   35   36   37   86   87   137   37   38   37   37   38   87   38   38   | $-\!\!+\!\!-\!\!\!+$ | $\dashv$ | 4          |           |          |              | _            |      | l ⊨        | _                 | 1               | _            | 1_           | _        | Ш         | _        |       | J L        |  |                 |               |                  |              |        | /                |            |       |          |
| 31 81   32 82   33 83   34 84   35 85   36 86   37 87  | +                    | +        | -          | $\dashv$  |          | -            |              |      |            | _ _               | $\perp$         | <u> </u>     | 4            | _ _      | Ш         |          |       | ↓ L        | $\Box$   |                 |               | L.               |              |        |                  |            |       |          |
| 32 / 82 132   33 / 83 133   34 / 84 134   35 / 85 135   36 / 86 136   37 / 87 / 137  | $\dashv$             | +        |            | -         | Н        | ╀            |              | -    | -          |                   | Щ.              | <del> </del> | ╀            | _        | Ш         | _ _      |       | _          | lacksquare                                       | $\perp$         | _ _           |                  | $\perp$      |        |                  |            |       |          |
| 33   | $\dashv$             | $\dashv$ | $\dashv$   | -         |          | +            |              |      | <b>!</b>   |                   |                 | <u> </u>     | ┺            | _        | Ш         |          |       | <b>」</b>   | $\sqcup \sqcup$                                  | ┖               |               |                  | ↓            |        | $\mathbb{Z}$     |            |       |          |
| 34 84   35 85   36 86   37 87  | $\dashv$             | +        | $\dashv$   | $\dashv$  | $\vdash$ | +-           |              |      | <b>│</b>   |                   | -               | -            | +            |          | $\vdash$  |          |       | <b>↓</b>   | $\vdash$   | L               |               |                  | 1            | 4      |                  | <u>ر 2</u> | 3     | L        |
| 35     85     135     136       137       137  |                      |          | $\dashv$   | -         |          | ╁╌           | $\dashv$     |      | <b>├</b>   | +                 |                 | -            |              | +        |           | -        |       | ł⊢         | ⊢-   | $\vdash$        | _ -           | ┺                | ↓            | +      |                  |            |       | _        |
| 36   | $\dashv$             | +        |            | $\dashv$  | -        | ╫            |              |      | <b> </b>   | $\dashv$          | ┝┼              | ╁            | +-           | +        | $\vdash$  | +        | _     | ⇃ ├─       | $\vdash\vdash$                                   | $\vdash$        | _             | ــ               | +            | +      |                  |            |       | L        |
| 37 137 137   | $\dashv$             | -        | $\dashv$   |           | $\vdash$ | +            | +            |      | ┨ ├─       |                   | $\vdash$        | $\vdash$     | +            |          | $\vdash$  | +-       |       | ┨┝         | <del>                                     </del> | ╁               |               | ┼                | ┿-           | +      |                  |            |       | -        |
|  | +                    | +        | -1         | $\dashv$  | -        | ╁            |              |      | ┨          |                   | $\vdash$        | +            | +            | -        | $\vdash$  |          |       | ┨╴├─       | $\vdash$   | ┼-              | +             | ╄╌               | +            | +      |                  |            |       | -        |
|  | $\dashv$             | 十        | $\neg$     | $\neg$    |          | +-           | +            |      | i  -       | +                 |                 | ╁            | ╁            |          | $\vdash$  | +        |       | ┥┝         | ┝╌├─   | $\vdash$        |               | -                | +            |        | +                |            |       | H        |
| 39 89 139  | $\dashv \dashv$      | ヿ        |            | $\neg$    |          | 十            | $\neg$       |      | 1          | $\dashv$          | - 1             | ╁            | ╁╴           |          | ╁         | $\dashv$ |       | ┨┝         | ┝╌┼╴   | $\vdash$        |               | $\vdash$         | +            | +      |                  |            |       | H        |
| 40 90 140  | $\neg$               | 一        |            | $\neg$    |          | +-           | $\neg$       |      | 1  -       | +                 | 十               | 1            | 1            | $\dashv$ | $\forall$ | 一        | -     | ┧┝         | <del></del>                                      | $\vdash$        |               | $\vdash$         | ╫            | ╬      | +                |            |       | H        |
|  | $\top$               | $\dashv$ | _          | $\neg$    | -        | +            |              |      | 1  -       |                   | $\vdash \vdash$ | ╁            | ┿            |          | $\vdash$  |          |       | ┨ ├        | ╁┼   | ┼               | +             | +-               | +            | +      | -+,              |            |       | H        |
|  | $\dashv \dashv$      | $\dashv$ | $\dashv$   | -         |          | +            |              |      | 1  -       |                   | $\vdash$        | +            | ╁╌           | +        | +         |          |       | ┥ ├-       | +  | +-              | +             | ┼                | +            | +      | - 1              |            | _     | -        |
| 42   | $\dashv \dashv$      | $\dashv$ | -          | $\dashv$  |          | +            | $\dashv$     |      | 1  -       | $\dashv$          | $\vdash$        | +            | +-           | -        | +         |          |       | ┤├         | +  | -               | -             | +                | +            | +      | <del>/</del>     |            | 1_    | -        |
| 43 94 144  | $\top$               | $\top$   | _          | $\dashv$  |          | $\top$       | $\dashv$     | 1    | 1  -       | $\dashv$          | $\vdash$        | +            | +            | -+       | +         | -        | -     | ┤├─        | +  | +               | -             | +                | +            | - -    | +                | <u> </u>   |       | -        |
| 44 45 95 145   | $\dashv \vdash$      | 十        |            | $\dashv$  |          | +            |              |      | 1  -       |                   | $\vdash \vdash$ | +            | +            | +        | ╂╌┤       |          |       | ┥ ├        | $\vdash$   | ┼               | +             | +                | +            | +      |                  |            |       | -        |
| 45 46 96 146   | $\neg \neg$          | 寸        |            | $\exists$ |          | 1            | +            | +    |            | -                 | H               | $\dagger$    | +            | +        | H         |          |       | 1    -     |  | ╁╌              |               | +                | +            | +      | +                |            | _     | H        |
| 40 97 147  | $\neg \neg$          | 丁        |            | $\neg$    |          | 1            | 1            |      | 1          |                   | П               | T            | $\top$       | +        | $\Box$    |          |       | 1  -       | $\vdash \vdash$                                  | +               |               | +                | +            | +      | +                |            |       | $\vdash$ |
| 48 98 148  |                      |          |            |           |          | T            |              |      | 1          | $\top$            | $\Box$          | 1            | $\top$       | 十        | $\Box$    | _        |       | 1          | $\vdash$   | $\vdash$        | $\dashv$      | +                | +            | +-     | +                |            |       | $\vdash$ |
| 49 99 149  |                      | $\Box$   |            |           |          |              |              |      | ] [        |                   |                 |              | Τ            | 7        | П         | _        |       | 1          | $\vdash$   | $\vdash$        | -             | t                | +            | +      | +                |            |       | H        |
| 50 100 150 150   |                      |          |            | _         |          |              | [            | 150  |            |                   |                 |              | I            |          |           |          | 100   | ] [        | ഥ  | L               |               |                  |              | 工      | 士                |            |       | ŀ        |

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